



Maths Medium Term Overview – Autumn Year 6

Year 6 – Autumn term	
Week & Focus	NC objectives to be covered. NB – Non-statutory guidance and small step changes in repeated objectives are in bold.
1 & 2– Number & place value	▪ Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. ▪ Round any whole number to a required degree of accuracy (including placing numbers on a number line). ▪ Use negative numbers in context, and calculate intervals across zero. ▪ Solve number and practical problems that involve all of the above. ▪ Consolidation from Y5 : Count forwards or backwards in steps of powers of 10 for any given number. ▪ Consolidation from Y5: Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.
3 & 4 –Addition & subtraction	▪ Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and subtraction. Refer to pgs 41-43 addition booklet and pgs 49-51 of subtraction. ▪ Perform mental calculations, including with mixed operations (addition and subtraction at this point) and large numbers. Refer to mental strategies booklet pgs 48-57. ▪ Use estimation to check answers to calculations and determine, in the context of a problem, an



Maths Medium Term Overview – Autumn Year 6

	appropriate degree of accuracy. ▪ Solve problems involving addition and subtraction. ▪ Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
5 –Multiplication & division	▪ Pupils continue to use all the multiplication tables to calculate mathematical statements, in order to maintain their fluency. ▪ Consolidation from Y5: recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) ▪ Perform mental calculations, including with mixed operations and large numbers. ▪ Identify common factors, common multiples and prime numbers. ▪ Practise multiplication for larger numbers, using the formal written method of short multiplication (including problem solving). Refer to pg 25 multiplication booklet.
6 –Multiplication & division	▪ Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method for long multiplication. Refer to pg 26 multiplication booklet. ▪ Divide numbers up to 4 digits by a two-digit number using the formal written method of short division



Maths Medium Term Overview – Autumn Year 6

	where appropriate, interpreting remainders according to the context. Refer to pgs 25-30 division booklet. ▪ Solve problems involving multiplication and division.
7 – Fractions, decimals & percentages	▪ Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100, 1000 giving answers up to three decimal places ▪ Consolidation from Y5: Order, compare and round decimals up to 3 decimal places. ▪ Consolidation from Y5: Add and subtract decimals.
8 – Fractions, decimals & percentages	▪ Consolidation from Y5: Conversion between mixed numbers and improper fractions. ▪ Consolidation from Y5: Equivalent fractions. ▪ Use common factors to simplify fractions; use common multiples to express fractions in the same denomination ▪ Compare and order fractions, including fractions >1 ▪ Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
9 - Algebra	▪ Use simple formula.



Maths Medium Term Overview – Autumn Year 6

	- Express missing number problems algebraically. - Find pairs of numbers that satisfy an equation with two unknowns
10 – Geometry – position & direction + Properties of shape	- Describe positions on the full coordinate grid (all four quadrants). - Draw and translate simple shapes on the coordinate plane and reflect them in the axes. Predict missing coordinates using the properties of shapes. These might be expressed algebraically for example, translating vertex (a, g) to (a – 2, b – 3) Consolidation from Y5: Estimate, compare and draw acute, obtuse and reflex angles – use of a protractor
11 – Geometry – Properties of shape	- Recognise angles where they meet at a point, are on a straight line and find missing angles. - Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles. These relationships might be expressed algebraically for example, $a = 180 - (b + c)$. Consolidation from Y4: Classify quadrilaterals and triangles. - Draw 2D shapes using given dimensions and angles.
12 – Measures – Perimeter, area & volume	Consolidation from Y5: Measure and calculate the perimeter of composite rectilinear shapes. Consolidation from Y5: Calculate and compare the area of rectangles.



Maths Medium Term Overview – Autumn Year 6

- Recognise that shapes with the same areas can have different perimeters and vice versa.
- Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3) and extending to other units (for examples, mm^3 and km^3).
- Recognise when it is possible to use formulae for area and volume of shapes.

ADDITIONAL WEEKS FOR ASSESSMENT, REVISITING, CONSOLIDATION & THEMED WORK